RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _/o/576,388_
Source: _1FWP_
Date Processed by STIC: _5/1/06_

ENTERED

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         RAW SEQUENCE LISTING              DATE: 05/01/2006
         PATENT APPLICATION:  US/10/576,388    TIME: 11:02:58

         Input Set : A:\pto.da.txt
         Output Set: N:\CRF4\05012006\J576388.raw

     3 <110> APPLICANT: THOMAS JEFFERSON UNIVERSITY
     4        UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION
     6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITING CHOLESTEROL
     7        UPTAKE
     9 <130> FILE REFERENCE: 003252-053291-PCT
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/576,388
C--> 12 <141> CURRENT FILING DATE: 2006-04-19
    14 <150> PRIOR APPLICATION NUMBER: 60/444,475
    15 <151> PRIOR FILING DATE: 2003-02-03
    17 <160> NUMBER OF SEQ ID NOS: 13
    19 <170> SOFTWARE: PatentIn Ver. 3.2
    21 <210> SEQ ID NO: 1
    22 <211> LENGTH: 339
    23 <212> TYPE: PRT
    24 <213> ORGANISM: Homo sapiens
    26 <400> SEQUENCE: 1
    27 Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly Asp
    28  1               5                  10                  15
    30 His Ser Thr Pro Pro Ser Ala Tyr Gly Ser Val Lys Ala Tyr Thr Asn
    31              20                  25                  30
    33 Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Glu Thr Ala Ile Lys Thr
    34          35                  40                  45
    36 Lys Gly Val Asp Glu Val Thr Ile Val Asn Ile Leu Thr Asn Arg Ser
    37      50                  55                  60
    39 Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr Lys
    40  65                  70                  75                  80
    42 Lys Glu Leu Ala Ser Ala Leu Lys Ser Ala Leu Ser Gly His Leu Glu
    43              85                  90                  95
    45 Thr Val Ile Leu Gly Leu Leu Lys Thr Pro Ala Gln Tyr Asp Ala Ser
    46              100                 105                 110
    48 Glu Leu Lys Ala Ser Met Lys Gly Leu Gly Thr Asp Glu Asp Ser Leu
    49              115                 120                 125
    51 Ile Glu Ile Ile Cys Ser Arg Thr Asn Gln Glu Leu Gln Glu Ile Asn
    52      130                 135                 140
    54 Arg Val Tyr Lys Glu Met Tyr Lys Thr Asp Leu Glu Lys Asp Ile Ile
    55 145                 150                 155                 160
    57 Ser Asp Thr Ser Gly Asp Phe Arg Lys Leu Met Val Ala Leu Ala Lys
    58              165                 170                 175
    60 Gly Arg Arg Ala Glu Asp Gly Ser Val Ile Asp Tyr Glu Leu Ile Asp
    61              180                 185                 190
    63 Gln Asp Ala Arg Asp Leu Tyr Asp Ala Gly Val Lys Arg Lys Gly Thr
    64              195                 200                 205
    66 Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Val Pro His
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67       210                      215                      220
69 Leu Gln Lys Val Phe Asp Arg Tyr Lys Ser Tyr Ser Pro Tyr Asp Met
70 225                      230                 235                      240
72 Leu Glu Ser Ile Arg Lys Glu Val Lys Gly Asp Leu Glu Asn Ala Phe
73                      245                      250                      255
75 Leu Asn Leu Val Gln Cys Ile Gln Asn Lys Pro Leu Tyr Phe Ala Asp
76                      260                      265                      270
78 Arg Leu Tyr Asp Ser Met Lys Gly Lys Gly Thr Arg Asp Lys Val Leu
79                      275                      280                      285
81 Ile Arg Ile Met Val Ser Arg Ser Glu Val Asp Met Leu Lys Ile Arg
82                      290                      295                      300
84 Ser Glu Phe Lys Arg Lys Val Gly Lys Ser Leu Tyr Tyr Tyr Ile Gln
85 305                      310                      315                      320
87 Gln Asp Thr Lys Gly Asp Tyr Gln Lys Ala Leu Leu Tyr Leu Cys Gly
88                      325                      330                      335
90 Gly Asp Asp
93 <210> SEQ ID NO: 2
94 <211> LENGTH: 337
95 <212> TYPE: PRT
96 <213> ORGANISM: Danio rerio
98 <400> SEQUENCE: 2
99 Met Ala Leu Val Ser Glu Tyr Leu Ser Lys Leu Thr Leu Ser Tyr Gly
100   1               5                      10                      15
102 Gly Glu Arg Glu Pro Lys Cys Pro Thr Val Val Ala Ala Tyr Asp Phe
103                      20                      25                      30
105 Asn Pro Glu Val Asp Ala Ala Lys Ile Glu Thr Ala Ile Lys Thr Lys
106                      35                      40                      45
108 Gly Val Asp Glu Gln Thr Ile Ile Asp Ile Leu Thr Arg Arg Ser Leu
109       50                      55                      60
111 Leu Lys Arg Ser Asp Ile Ala Phe Glu Tyr Glu Lys Arg Ala Lys Lys
112 65                      70                      75                      80
114 Asp Leu Val Ser Ala Leu Lys Gly Ala Leu Ser Gly Ser Leu Glu His
115                      85                      90                      95
117 Leu Ile Leu Gly Leu Met Lys Ser Thr Pro Gln Tyr Asp Ala Phe Glu
118                      100                      105                      110
120 Leu Lys Ala Met Lys Gly Leu Gly Thr Asp Glu Glu Ser Leu Ile Glu
121                      115                      120                      125
123 Met Val Cys Ser Arg Asn Lys Glu Glu Leu Ala Glu Ile Lys Lys Val
124       130                      135                      140
126 Tyr Lys Glu Met Phe Lys Lys Asp Leu Glu Lys Asp Ile Ser Gly Asp
127 145                      150                      155                      160
129 Thr Ser Gly Asp Phe Ala Lys Leu Leu Leu Ala Leu Ala Gln Gly Asn
130                      165                      170                      175
132 Arg Glu Glu Gln Ser Ser Val Val Asp Tyr Glu Lys Ile Asp Asn Asp
133                      180                      185                      190
135 Ala Arg Thr Leu Tyr Glu Thr Gly Val Arg Arg Lys Gly Thr Asp Val
136       195                      200                      205
138 Val Thr Trp Ile Ser Ile Phe Ser Glu Arg Ser Val Ser His Leu Gln
139 210                      215                      220
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Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05012006\J576388.raw

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141 Lys Val Phe Glu Arg Tyr Lys Arg Tyr Ser Pro Tyr Asp Leu Lys Glu
142 225                 230                 235                 240
144 Ser Ile Arg Met Glu Val Lys Gly Asp Leu Glu Lys Ser Phe Leu Thr
145             245                 250                 255
147 Leu Val Glu Cys Leu Glu Asn Lys His Leu Tyr Phe Ala Ser Arg Leu
148             260                 265                 270
150 Asn Asp Ala Met Lys Gly Lys Ser Val Lys Asp Lys Ile Ile Thr Arg
151             275                 280                 285
153 Ile Ile Val Ser Arg Cys Glu Val Asp Leu Met Lys Val Arg Ile Glu
154     290                 295                 300
156 Phe Lys Arg Asn Phe Gly Arg Ser Leu His Gln Thr Ile Ser Glu His
157 305                 310                 315                 320
159 Thr Lys Gly Asp Tyr Gln Arg Ala Leu Leu Asn Leu Val Gly Gly Asp
160             325                 330                 335
162 Asp
165 <210> SEQ ID NO: 3
166 <211> LENGTH: 181
167 <212> TYPE: PRT
168 <213> ORGANISM: Danio rerio
170 <400> SEQUENCE: 3
171 Met Thr Ser Gly Tyr Lys Asp Gly Thr Pro Glu Glu Glu Tyr Ala His
172 1               5                   10                  15
174 Ser Pro Phe Ile Arg Lys Gln Gly Asn Ile Tyr Lys Pro Asn Asn Lys
175             20                  25                  30
177 Glu Met Asp Asn Asp Ser Ile Asn Glu Lys Thr Leu Gln Asp Val His
178         35                  40                  45
180 Thr Lys Glu Ile Asp Leu Val Asn Arg Asp Pro Lys His Leu Asn Asp
181     50                  55                  60
183 Asp Val Val Lys Val Asp Phe Glu Asp Val Ile Ala Glu Pro Ala Gly
184 65                  70                  75                  80
186 Thr Tyr Ser Phe Asp Gly Val Trp Lys Ala Ser Phe Thr Thr Phe Thr
187             85                  90                  95
189 Val Thr Lys Tyr Trp Cys Tyr Arg Leu Leu Thr Ala Leu Val Gly Ile
190             100                 105                 110
192 Pro Leu Ala Leu Val Trp Gly Ile Phe Phe Ala Ile Leu Ser Phe Ile
193         115                 120                 125
195 His Ile Trp Ala Val Val Pro Cys Val Lys Ser Tyr Leu Ile Glu Ile
196     130                 135                 140
198 His Cys Ile Ser Arg Val Tyr Ser Ile Cys Val His Thr Phe Cys Asp
199 145                 150                 155                 160
201 Pro Leu Phe Glu Ala Met Gly Lys Cys Phe Ser Asn Val Arg Val Thr
202             165                 170                 175
204 Ala Thr Lys Val Val
205             180
208 <210> SEQ ID NO: 4
209 <211> LENGTH: 178
210 <212> TYPE: PRT
211 <213> ORGANISM: Homo sapiens
213 <400> SEQUENCE: 4
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Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05012006\J576388.raw

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214 Met Ser Gly Gly Lys Tyr Val Asp Ser Glu Gly His Leu Tyr Thr Val
215 1               5                   10                  15
217 Pro Ile Arg Glu Gln Gly Asn Ile Tyr Lys Pro Asn Asn Lys Ala Met
218             20                  25                  30
220 Ala Asp Glu Leu Ser Glu Lys Gln Val Tyr Asp Ala His Thr Lys Glu
221         35                  40                  45
223 Ile Asp Leu Val Asn Arg Asp Pro Lys His Leu Asn Asp Asp Val Val
224         50                  55                  60
226 Lys Ile Asp Phe Glu Asp Val Ile Ala Glu Pro Glu Gly Thr His Ser
227 65              70                  75                  80
229 Phe Asp Gly Ile Trp Lys Ala Ser Phe Thr Thr Phe Thr Val Thr Lys
230             85                  90                  95
232 Tyr Trp Phe Tyr Arg Leu Leu Ser Ala Leu Phe Gly Ile Pro Met Ala
233             100                 105                 110
235 Leu Ile Trp Gly Ile Tyr Phe Ala Ile Leu Ser Phe Leu His Ile Trp
236         115                 120                 125
238 Ala Val Val Pro Cys Ile Lys Ser Phe Leu Ile Glu Ile Gln Cys Ile
239     130                 135                 140
241 Ser Arg Val Tyr Ser Ile Tyr Val His Thr Val Cys Asp Pro Leu Phe
242 145                 150                 155                 160
244 Glu Ala Val Gly Lys Ile Phe Ser Asn Val Arg Ile Asn Leu Gln Lys
245                 165                 170                 175
247 Glu Ile
250 <210> SEQ ID NO: 5
251 <211> LENGTH: 19
252 <212> TYPE: PRT
253 <213> ORGANISM: Danio rerio
255 <220> FEATURE:
256 <221> NAME/KEY: MOD_RES
257 <222> LOCATION: (7)
258 <223> OTHER INFORMATION: unidentified amino acid
260 <220> FEATURE:
261 <221> NAME/KEY: MOD_RES
262 <222> LOCATION: (13)
263 <223> OTHER INFORMATION: unidentified amino acid
265 <220> FEATURE:
266 <221> NAME/KEY: MOD_RES
267 <222> LOCATION: (17)
268 <223> OTHER INFORMATION: unidentified amino acid
270 <400> SEQUENCE: 5
271 Met Thr Ser Gly Tyr Lys Xaa Gly Thr Pro Glu Glu Xaa Tyr Ala His
272 1               5                   10                  15
274 Xaa Pro Glu
277 <210> SEQ ID NO: 6
278 <211> LENGTH: 16
279 <212> TYPE: PRT
280 <213> ORGANISM: Danio rerio
282 <220> FEATURE:
283 <221> NAME/KEY: MOD_RES
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284 <222> LOCATION: (2)
285 <223> OTHER INFORMATION: unidentified amino acid
287 <220> FEATURE:
288 <221> NAME/KEY: MOD_RES
289 <222> LOCATION: (10)
290 <223> OTHER INFORMATION: unidentified amino acid
292 <220> FEATURE:
293 <221> NAME/KEY: MOD_RES
294 <222> LOCATION: (14)
295 <223> OTHER INFORMATION: unidentified amino acid
297 <400> SEQUENCE: 6
N--> 298 Glu Xaa Asp Asn Asp Ser Ile Asn Glu Xaa Thr Leu Gln Xaa Val His
299   1               5                  10                  15
302 <210> SEQ ID NO: 7
303 <211> LENGTH: 12
304 <212> TYPE: PRT
305 <213> ORGANISM: Danio rerio
307 <220> FEATURE:
308 <221> NAME/KEY: MOD_RES
309 <222> LOCATION: (9)
310 <223> OTHER INFORMATION: unidentified amino acid
312 <400> SEQUENCE: 7
N--> 313 Leu Thr Leu Ser Tyr Gly Gly Glu Xaa Glu Pro Lys
314   1               5                  10
317 <210> SEQ ID NO: 8
318 <211> LENGTH: 14
319 <212> TYPE: PRT
320 <213> ORGANISM: Danio rerio
322 <400> SEQUENCE: 8
323 Arg Ser Leu Leu Lys Arg Ser Asp Ile Ala Phe Glu Tyr Glu
324   1               5                  10
327 <210> SEQ ID NO: 9
328 <211> LENGTH: 13
329 <212> TYPE: PRT
330 <213> ORGANISM: Danio rerio
332 <220> FEATURE:
333 <221> NAME/KEY: MOD_RES
334 <222> LOCATION: (4)
335 <223> OTHER INFORMATION: unidentified amino acid
337 <220> FEATURE:
338 <221> NAME/KEY: MOD_RES
339 <222> LOCATION: (11)
340 <223> OTHER INFORMATION: unidentified amino acid
342 <400> SEQUENCE: 9
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344   1               5                  10
347 <210> SEQ ID NO: 10
348 <211> LENGTH: 25
349 <212> TYPE: DNA
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/01/2006
PATENT APPLICATION: US/10/576,388   TIME: 11:02:59

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05012006\J576388.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 7,13,17
Seq#:6; Xaa Pos. 2,10,14
Seq#:7; Xaa Pos. 9
Seq#:9; Xaa Pos. 4,11

VERIFICATION SUMMARY   DATE: 05/01/2006
PATENT APPLICATION: US/10/576,388   TIME: 11:02:59

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05012006\J576388.raw

,:11 M:270 C: Current Application Number differs, Replaced Current Application Number
,:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
,:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
,:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
,:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
,:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
,:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0